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II. CLAIM AMENDMENTS

1. (Previously Presented) A method for transferring packets between a wireless data transfer device and a mobile communication network, in which method for transferring packets between a wireless data transfer device and a mobile communication network there are formed temporary packet flows, in which data is transferred in one or more packet data traffic channels either in a first direction from the mobile communication network to the wireless data transfer device, or in a second direction from the wireless data transfer device to the mobile communication network, and in which method, when data transfer ends in a packet flow, a notification of the end of the data transfer is added to the packet to be transmitted, wherein when the transfer of packets in said first direction has ended, at least one enquiry message related to the temporary packet flow in the first direction is also sent from the mobile communication network to the wireless data transfer device using the temporary packet flow in the first direction to allow the wireless data transfer device to request establishment of a temporary packet flow in the second direction even when the wireless data transfer device has indicated the reception of all data blocks from the mobile communication network, and that if there are packets in the wireless data transfer device to be sent to the mobile communication network, a response message to said message is sent from the wireless data transfer device, to which in the response message the wireless data transfer device sets information about the need to send packets.

2. (Previously Presented) A method according to Claim 1, characterized in that the formation of temporary block flows is carried out by means for signalling information transmitted in one or more control channels.
3. (Previously Presented) A method according to Claim 1, characterized in that the processing of the information to be transmitted takes place according to a protocol stack, which includes at least an RLC/MAC layer.
4. (Previously Presented) A method according to claim 1, characterized in that said response message is a request message for the allocation of packet resources.
5. (Previously Presented) A method according to claim 1, characterized in that advantageously the last transmitted packet is used as the enquiry message.
6. (Previously Presented) A method according to claim 1, characterized in that a Packet Power Control/Timing Advance message is used as the enquiry message.
7. (Previously Presented) A method according to claim 1, characterized in that a Packet Uplink Assignment message is used as the enquiry message.

8. (Previously Presented) A method according to claim 5, characterized in that the transmission of the enquiry message is repeated, whereby the following steps are also performed in the method:

the wireless data transfer device transmits a reply message, to which the wireless data transfer device sets information about the need to transmit packets,

said reply message is received in the mobile communication network and it is examined whether said information about the need to transmit packets has been set in the reply message, and if the information about the need to transmit packets has been set, the formation of a temporary block flow from the wireless data transfer device to the mobile communication network is started, otherwise said enquiry message is transmitted again.

9. (Previously Presented) A method according to claim 1, characterized in that the mobile communication network is a GPRS packet-switched network.

10. (Previously Presented) A method according to claim 1, in which the wireless data transfer device has at least an active mode and an idle mode, characterized in that if the wireless data transfer device does not have packets to be transferred when the transfer of packets in the first direction is stopped, the wireless data transfer device is set to the idle mode.

11. (Previously Presented) A method according to claim 1, characterized in that when the transfer of packets has stopped, the wireless data transfer device sends an acknowledgement message to the mobile communication network, and that the wireless data transfer device sets in said acknowledgement message at least information about the need to send packets.

12. (Previously Presented) A method according to Claim 11, characterized in that the wireless data transfer device also sets in said acknowledgement message information about the time of transmission of the enquiry message.

13. (Previously Presented) A data transfer system, in which information is arranged to be transferred in packet form between a wireless data transfer device and a mobile communication network, and which data transfer system comprises:

means for transferring packets between the wireless data transfer device and the mobile communication network in temporary block flows, in which information is arranged to be transferred in one or more packet data traffic channels either in a first direction from the mobile communication network to the wireless data transfer device, or in a second direction from the wireless data transfer device to the mobile communication network; and

means for setting information about the end of the block flow in the packet to be transmitted when data transfer ends in a block flow;

wherein the data transfer system also comprises at least:

means for sending at least one enquiry message related to the temporary packet flow in the first direction from the mobile communication network to the wireless data transfer device when the transfer of packets in said first direction has stopped using the temporary packet flow in the first direction to allow the wireless data transfer device to request establishment of a temporary packet flow in the second direction even when the wireless data transfer device has indicated the reception of all data blocks from the mobile communication network;

means for examining whether the wireless data transfer device contains packets to be sent to the mobile communication network;

whereby the wireless data transfer device comprises at least:

means for forming a reply message to said enquiry message;

and means for setting information about the need to send packets in said reply message.

14. (Previously Presented) A data transfer system according to Claim 13, characterized in that the formation of temporary block flows is arranged to be performed by means of signalling information transmitted in one or more control channels.

15. (Previously Presented) A data transfer system according to Claim 13, characterized in that a protocol stack for processing the information to be transmitted has been formed in the wireless data transfer device and the mobile communication network, and that the protocol stack comprises at least an RLC/MAC layer.

16. (Previously Presented) A data transfer system according to claim 13, characterized in that said reply message is a request message for the allocation of packet resources.

17. (Previously Presented) A method according to claim 13, characterized in that the mobile communication network is a GPRS packet-switched network.

18. (Previously Presented) A wireless data transfer device for a data transfer system, in which information is arranged to be transferred in packet form between the wireless data transfer device and a mobile communication network, and which data transfer system comprises means for transferring packets between the wireless data transfer

device and the mobile communication network in temporary block flows, in which information is arranged to be transferred in one or more packet data traffic channels either in a first direction from the mobile communication network to the wireless data transfer device, or in a second direction from the wireless data transfer device to the mobile communication network, wherein the wireless data transfer device also comprises at least:

means for receiving an enquiry message related to the temporary packet flow in the first direction sent from the mobile communication network, which enquiry message has been sent after the transfer of packets has stopped in said first direction using the temporary packet flow in the first direction to allow the wireless data transfer device to request establishment of a temporary packet flow in the second direction when the wireless data transfer device has indicated the reception of all data blocks from the mobile communication network;

means for examining whether the wireless data transfer device has packets to be sent to the mobile communication network;

means for forming a reply message to said enquiry message;
and

means for setting information about the need to send packets to said reply message.

19. (Previously Presented) A wireless data transfer device according to Claim 19, characterized in that the wireless data transfer device comprises means for sending an acknowledgement message to the mobile communication network when the transfer of packets has stopped, and means for setting in said acknowledgement message at least information about the need to send packets.

20. (Previously Presented) A wireless data transfer device according to Claim 19, characterized in that the wireless data transfer device comprises means for setting in said acknowledgement message information about the time of transmission of the enquiry message.